	Application No.	Applicant(s)
Notice of Allowability	10/716,670 Examiner	TOYODA ET AL.  Art Unit
	Long Maurica	
· .	Long Nguyen	2816
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIG	(OR REMAINS) CLOSED in to or other appropriate commun GHTS. This application is su	his application. If not included ication will be mailed in due course. THIS
1. This communication is responsive to the IDS filed 5/20/04.		
2. 🔀 The allowed claim(s) is/are <u>1-6</u> .		•
3. The drawings filed on are accepted by the Examiner	;	
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority un</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> </ul>		<b>(f)</b> .
2. ☐ Certified copies of the priority documents have		No
<ol> <li>Certified copies of the priority documents have</li> <li>Copies of the certified copies of the priority doc</li> </ol>	• •	
International Bureau (PCT Rule 17.2(a)).	uments have been received	in this national stage application from the
* Certified copies not received:		
Certified copies not received		
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONMI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be submi	tted. Note the attached EXAMs reason(s) why the oath or c	MINER'S AMENDMENT or NOTICE OF declaration is deficient.
6. CORRECTED DRAWINGS ( as "replacement sheets") must	t be submitted.	
(a) including changes required by the Notice of Draftsperso	on's Patent Drawing Review	(PTO-948) attached
1)  hereto or 2)  to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Paper No./Mail Date 20041026.	Amendment / Comment or in	n the Office action of
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the se header according to 37 CFR	drawings in the front (not the back) of 1.121(d).
<ol> <li>DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT F</li> </ol>	sit of BIOLOGICAL MATER FOR THE DEPOSIT OF BIOL	RIAL must be submitted. Note the OGICAL MATERIAL.
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Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 Notice of Info	rmal Patent Application (PTO-152)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)		• • • • • • • • • • • • • • • • • • • •
	Paper No./M	<ol> <li>Interview Summary (PTO-413),</li> <li>Paper No./Mail Date <u>20041026</u>.</li> </ol>
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No. /Mail Data 5/20/04</li> </ol>	B), 7. ⊠ Examiner's A	mendment/Comment
Paper No./Mail Date <u>5/20/04</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. ⊠ Examiner's S	tatement of Reasons for Allowance
of Biological Material	9.  Other	
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Application/Control Number: 10/716,670

Art Unit: 2816

### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Alex Chan on 10/26/04.

The application has been amended as follows:

#### In The Abstract

In the abstract, the recitation "A ferroelectric gate device ... is applied to said ferroelectric capacitor (1)." on lines 2-21 has been changed to:

--A ferroelectric gate device which comprises a ferroelectric capacitor (1), a switching element (2) serving as a resistor or a capacitor depending on the voltage applied, and a field-effect transistor (6) having a source, a drain and a gate, said ferroelectric capacitor (1) having an input terminal (IN) at one end, the other end of said ferroelectric capacitor (1) being connected to one end of said switching element (2), the other end of said switching element (2) being connected to the gate of said field-effect transistor (6), by applying a voltage to said input terminal, said switching element (2) serving as a resistor when a voltage higher than the coercive voltage (Vc) of a ferroelectric substance which said ferroelectric capacitor (1), and by applying a voltage to said input terminal, said switching element (2) serving as a capacitor when a voltage lower than the coercive voltage (Vc) of said ferroelectric substance is applied to said ferroelectric capacitor (1).--

Art Unit: 2816

# In The Drawings

The following changes to the drawings have been approved by the examiner and agreed upon by applicant: Figures 10(a) and 10(b) will be labeled as --Prior Art--.

In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.

## In The Specification

In the specification, page 1, following the title of the invention, the statement -- This is a continuation of copending International Application No. PCT/JP03/08951, filed July 15, 2003, which designated the United States-- has been inserted as a first sentence of the specification.

# In The Claims

Claim 2, line 3, "if a voltage" has been changed to --if the voltage--.

Claim 2, line 4, "the coercive voltage" has been changed to --a predetermined voltage--.

Claim 2, line 7, "when a voltage" has been changed to --when the voltage--.

Claim 2, line 8, "if a voltage" has been changed to --if the voltage--.

Claim 2, line 9, "the coercive voltage" has been changed to --the predetermined voltage--.

Claim 3, line 4, "substance" has been changed to --capacitor--.

# **Reasons For The Above Changes**

The abstract has been rewritten in a single paragraph to meet the proper format. No text has been changed.

The change in the drawings is needed to meet the requirement for "Prior Art" under MPEP § 608.02(g).

The above change to the specification has been made to meet the conditions for "Continuation" status.

The above changes to claims 2 and 3 have been made to correct the informalities and the antecedent basis so that claims 2 and 3 are clear.

#### REASONS FOR ALLOWANCE

2. Claims 1-6 are allowed.

Claim 1 is allowed because the prior art of record fails to disclose or suggest a ferroelectric gate device, which includes a ferroelectric capacitor, a switching element and a field effect transistor with the recited connections and operations set forth therein, wherein the switching element is a zener diode.

Claims 2-6 are allowed because they depend on claim 1.

#### Conclusion

- 3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- Any inquiry concerning this communication or earlier communications from the examiner should be directly to Examiner Long Nguyen whose telephone number is (571) 272-1753. The Examiner can normally be reached on Monday to Friday from 8:30am to 5:00pm.

Art Unit: 2816

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tim Callahan, can be reached at (571) 272-1740. The fax number for this group is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

October 26, 2004

Page 5

Long Nguyen Primary Examiner

Art Unit: 2816